

# Pediatric clinic 3 Feb 2011

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## Antibiotics

### Macrolides

- Oral except azithromycin → ممكن حقن بس غالبية
- Taken for 7 days
- Active against:
  - G +ve
  - E.Coli → Gastroenteritis
  - Klebsiella, mycoplasma → atypical pneumonia

#### 1) Erythromycin

- Against G +ve → Upper airway (sore throat)
- Dose 30-50 mg/kg/day ( average 40 mg )
- Trade name: **erythromycin, erythrocin, erythrin syrup** ( 200mg/5 ml → every 1 ml = 40 mg)
- Dosage = **1 ml (1 cm<sup>3</sup>) / kg / day**
- Primomycin (erythromycin + sulpha) → 6-8 h

#### 2) Clarithromycin

- Dose: 15 mg/kg/day divided over (/12 h)
- **Klacid**: 125, 250 → 1cm = 25 mg ⇒ **3cm/5 kg**
- **Klarimix**: 125
- Used in
  - Upper airway: bronchiolitis → خاصة Asthmatic
  - Atypical pneumonia: mycoplasma, Klebsiella, يتحصل غالباً عند 6 شهور (febrile pneumonia)

#### 3) Roxithromycin

- The only in form of suppositories
- Dose: 5mg/kg/day
- Used in upper airway

#### 4) Azithromycin

- Used in
  - Sore throat
  - Otitis media
  - GE
  - UTI
  - Atypical pneumonia
  - Typhoid: dosage in typhoid is 20mg/kg/day for 7 days

- Eradication of post streptococcal GN: (Used for 10 days) (main symptom red urine, ↑ urea, ↑ creatine)
- Used at least for **5** days
- Used **once daily, before meal** by 1 hour or after meal by 2 hrs.
- Dose: 10 mg/kg/day
- Dosage
  - Syrup (30 ml – 60 ml – 90 ml) يوجد منه تركيزين
    - a- 100mg/ 5 cm → as in ***zithrokan, unizithrin, zisrocin***  
**WT/2** ➡ يعني في تركيز 100 بنقسم الوزن علي 2
    - b- 200mg/ 5cm → as in ***zithrokan, Zithromax, xithrone, aziwok, zithrodose***  
**WT/4** ➡ يعني في تركيز 200 بنقسم الوزن علي 4

**Chloramphenicol**: NOT used

### **Sulpha**

- **Not** used before **2** years old
- Active against E.Coli, G +ve
- Dose: 1ml / 2kg/ day → **WT/2**
- Divided /12h
- Bacteriostatic → used more than > 7 days
- Uses
  - Sore throat
  - UTI
  - GE
  - Bacillary dysentery
- Form and dosage
  - Syrup [not suspension, no injection]
  - **Septazole, septrin, sutrim**
  - Septazole tab: قرصين كل 12 ساعة

### **Beta-lactamase**

- Only in the form of injection, غالبية جدا
- Active against: G +ve, G –ve, anaerobes
- تستخدم غالبا حالات حديثي الولادة في المستشفيات فقط
- Mainly in neonates in hospitals
- Names: imipenem, meropenem
- Dose: 20 mg/kg/dose divided over /8h
- ½ gm. / 100cc
- Uses
  - Severe neonatal sepsis
  - Meningitis: dose 40 mg/kg/day

- Pseudomonas

### Vancomycin

- Anti-staph
- Only injection
- Dose 15 mg/kg/dose divided over /8h
- Trade name: vancomycin merk
- Used in
  - Pneumonia
  - Pseudomembranous colitis → يكسر الأميول و يشربه

#### Anti-staph drugs

- 1- Ampicillin
- 2- Fluxacillin
- 3- Garamycin
- 4- vancomycin